A

217/782-2113

Application No.: C903052
I.D. No.: 163121AAC 219A-R1
Received: March 28, 1979
Construction of: Orthonitroaniline Dust Collector
Location: Route 3, Sauget

April 6, 1979

Monsanto Company
800 North Lindbergh
St. Louis, Missouri 63166

Attention: J. W. Molloy

Gentlemen:

Permit is hereby granted to construct the above-referenced equipment. This permit is granted subject to the following conditions:

1. Standard conditions attached hereto and incorporated herein by reference.

Very truly yours,

Frederick L. Crawford, P.E.
Analysis Unit Manager, Permit Section
Division of Air Pollution Control

FLC:RAC:bld/7876a/16

CONFIDENTIAL

CALCULATION SHEET

Facility MONSANTO - SAUGET	I.D. 163121 AAC
Anal. Eng. RAC Date 040379	PN C 903052
Rev. Eng. _____ Date __ __ __	Date Rec. 032879

• AP TO REPLACE EXISTING BAGHOUSE ON THE ORTHONITROANI F
W/ NEWER, MORE EFFICIENT BAGHOUSE TO LOWER EMISSIONS
FOR OFFSETTING PURPOSES FOR PN C 903053

PREVIOUS E = 1.5 #/H

PWR = 5000 #/H E ALLOW = 4.14 #/H FROM RULE 203(a)

E = 96.1 %

E UNCONTROLLED = 23 #/H E ACT. = 23 X 0.039 = 0.897 #/H < 4.1

OK

1.5 - 0.897 = 0.603 #/H OFFSET

GRANT

INVENTORY T/Y

	MAX	ALLOW
P =	1.26	5.8

→ GRANT ←
RAC
040379

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Sheet 1 of 1

APC-268

Monsanto

MONSANTO CHEMICAL INTERMEDIATES CO.
Sauget, Illinois 62201
Phone: (618) 271-5835

March 15, 1979

Mr. M. J. Hayes, P.E.
Manager, Permit Section
Division of Air Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

RECEIVED
MAR 28 1979
IEPA-DAPC-SPFLD

2 new C permits

Reference: ID No. 163 121 AAC

Operating Permit Numbers	Source Numbers (existing)	New Source Numbers
02100066	219A	219AR1
~~04030078~~ ~~Ø3080058~~	222~~FR~~AG	222FR2 AG1

Dear Mr. Hayes:

Two construction permit applications are attached both for modification of existing sources. New source numbers are indicated above have been assigned.

The following information is submitted in accordance with the Rules for Issurance of Permits to New or Modified Air Pollution Emission Sources in non-attainment areas.

1) The two sources for which construction permits are submitted are to be located in a non-attainment area for total suspended particulates (TSP) and will emit less than 25 tons/year TSP.

2) Source 219A is being modified with an improved bag dust collector. This unit provided the lowest achievable emission rate (LAER) results. The emission will be reduced from 1.5 pounds per hour to 0.90 pounds per hour for a net reduction of 0.6 pounds per hour.

3) Source 222 ~~FR2~~ AG1 is being modified with a larger and improved design wet scrubber. This unit provides the lowest achievable emission rate (LAER) results. Air and solids loading to scrubber will be increased to 10,000 ACFM from 1,810 ACFM. Emissions will increase from ~~0.0~~ 0.13 pounds per hour to 0.46 pounds per hour. This net increase of 0.46 pounds per hour is offset by the reduction of 0.6 pounds per hour from Source 219A.

4) Cerfification is made that all sources owned and operated by Monsanto Company at W. G. Krummrich Plant which are located or significantly contribute to air quality levels in the non-attainment area will be in compliance with all applicable SIP requirements and state rules and regulations by the time the new or modified sources are operational.

Please note that this source application is marked "confidential" and should be handled in accordance with the confidentiality provision of the Illinois Environmental Protection Act.

Your approval of these operating permit applications for renewal is respectfully requested.

Sincerely,

J. W. Molloy
Plant Manager

JWM:ljl

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TABLE OF CONTENTS FOR 219AR1

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

APPLICATION FOR A PERMIT (A)
☒ CONSTRUCT ☐ OPERATE

NAME OF EQUIPMENT TO BE CONSTRUCTED OR OPERATED: Orthonitroaniline Dust Collector (B)

FOR AGENCY USE ONLY
I. D. NO. 163121AAC
PERMIT NO. C903052
DATE 03-28-79

1a. NAME OF OWNER: Monsanto Company		2a. NAME OF OPERATOR: MCI-A unit of Monsanto Company	
1b. STREET ADDRESS OF OWNER: 800 N. Lindbergh		2b. STREET ADDRESS OF OPERATOR: Route 3	
1c. CITY OF OWNER: St. Louis		2c. CITY OF OPERATOR: Sauget	
1d. STATE OF OWNER: Missouri	1e. ZIP CODE: 63166	2d. STATE OF OPERATOR: Illinois	2e. ZIP CODE: 62201

3a. NAME OF CORPORATE DIVISION OR PLANT: W. G. Krummrich Plant Monsanto Co.		3b. STREET ADDRESS OF EMISSION SOURCE: Route 3		
3c. CITY OF EMISSION SOURCE: Sauget	3d. LOCATED WITHIN CITY LIMITS: ☒ YES ☐ NO	3e. TOWNSHIP: Centreville	3f. COUNTY: St. Clair	3g. ZIP CODE: 62201

4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL) J. W. Molloy	5. TELEPHONE NUMBER FOR AGENCY TO CALL: 618-271-5835
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) ☒ OWNER: ☐ OPERATOR ☐ EMISSION SOURCE	7. YOUR ID NUMBER FOR THIS APPLICATION: (C) 219A-R1

8. THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT. BY AFFIXING HIS SIGNATURE HERETO HE FURTHER CERTIFIES THAT HE IS AUTHORIZED TO EXECUTE THIS APPLICATION.

AUTHORIZED SIGNATURE(S): (D)

BY JWMolloy (SIGNATURE) 3/22/79 (DATE)
J. W. Molloy (TYPED OR PRINTED NAME OF SIGNER)
Plant Manager (TITLE OF SIGNER)

BY _____ (SIGNATURE) _____ (DATE)
_____ (TYPED OR PRINTED NAME OF SIGNER)
_____ (TITLE OF SIGNER)

(A) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY ONLY BE USED TO REQUEST ONE TYPE OF PERMIT - CONSTRUCTION OR OPERATION - AND NOT BOTH.

(B) CLEARLY IDENTIFY THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. SUCH IDENTIFICATION WILL APREAR ON THE PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANIED BY THE APPLICABLE ADDENDA.

(C) PROVIDE A NUMBER IN ITEM 7 ABOVE WHICH YOU WOULD LIKE THE AGENCY TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR IDENTIFICATION NUMBER WILL BE REFERENCED IN ALL CORRESPONDENCE, RELATIVE TO THIS APPLICATION, FROM THIS AGENCY. YOUR IDENTIFICATION NUMBER MUST NOT EXCEED TEN (10) CHARACTERS.

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MAR 28 1979

(D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH PCB REGS., CHAPTER 2, PART 1, RULE 103(a)(4) OR 103(b)(5) WHICH STATES: "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

ORIGINAL

9. AN OPERATING PERMIT APPLICATION MUST BE SUBMITTED IN DUPLICATE.
A CONSTRUCTION PERMIT APPLICATION FOR CONSTRUCTION IN COOK COUNTY OUTSIDE OF THE CORPORATE LIMITS OF CHICAGO MUST BE SUBMITTED IN QUADRUPLICATE.
A CONSTRUCTION PERMIT APPLICATION IN ALL OTHER LOCATIONS MUST BE SUBMITTED IN TRIPLICATE.

10. THE APPLICANT SHALL SUBMIT A PLOT PLAN AND MAP SHOWING DISTANCES TO THE NEAREST BOUNDARY OF THE PROPERTY ON WHICH THE OPERATION IS LOCATED AND DISTANCES TO THE NEAREST RESIDENCES, LODGINGS, NURSING HOMES, HOSPITALS, SCHOOLS AND COMMERCIAL AND MANUFACTURING ESTABLISHMENTS. IF SUCH A PLOT PLAN AND MAP HAS ALREADY BEEN SUBMITTED, INDICATE THE ASSOCIATED AGENCY I.D. NUMBER AND PERMIT APPLICATION NUMBER. AGENCY I.D. NO. 163 121 AAC APPLICATION NO. 0 210 1157

11. THE APPLICANT SHALL SUBMIT A PROCESS FLOW DIAGRAM DEPICTING ALL EMISSION SOURCES AND ALL AIR POLLUTION CONTROL EQUIPMENT COVERED BY THIS PERMIT APPLICATION. THE DIAGRAM SHALL INCLUDE LABELS FOR EACH EMISSION SOURCE AND EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT, AND SHALL SET FORTH MAXIMUM FLOW RATES FOR (1) ALL PROCESSING EQUIPMENT, (2) ALL AIR POLLUTION CONTROL EQUIPMENT, (3) ALL EMISSION SOURCES, AND (4) ALL STACKS AND VENTS. NUMBER OF SHEETS: 1 DRAWING NUMBER(S): 219A-R1

12. FOR EACH EMISSION SOURCE AND EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT IDENTIFIED ON THE PROCESS FLOW DIAGRAM, THE APPLICANT SHALL COMPLETE AND SUBMIT THE APPLICABLE PERMIT APPLICATION FORMS. THE FLOW DIAGRAM SHALL INDICATE THROUGH WHICH STACK OR VENT AN EMISSION SOURCE OR ITS RELATED AIR POLLUTION CONTROL EQUIPMENT IS EXHAUSTED. IF IT IS EXHAUSTED WITHIN A BUILDING, SO INDICATE.

13. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, AND THE APPLICANT IS INCORPORATING BY REFERENCE PREVIOUSLY GRANTED INSTALLATION OR CONSTRUCTION PERMITS, HE SHALL COMPLETE FORM APC-210, ENTITLED "DATA AND INFORMATION -- INCORPORATION BY REFERENCE."

14. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, AND THE STARTUP OF ANY EMISSION SOURCE DESCRIBED BY THIS APPLICATION PRODUCES AN AIR CONTAMINANT IN EXCESS OF APPLICABLE STANDARDS, THE APPLICANT MAY REQUEST PERMISSION TO EXCEED SUCH STANDARDS BY COMPLETING FORM APC-203, ENTITLED "OPERATION DURING STARTUP."

15. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, AND THE APPLICANT IS APPLYING FOR PERMISSION TO OPERATE AN EMISSION SOURCE DURING MALFUNCTIONS OR BREAKDOWNS PURSUANT TO PCB REGS., CHAPTER 2, RULE 105, THE APPLICANT MAY REQUEST SUCH PERMISSION BY COMPLETING FORM APC-204, ENTITLED "OPERATION DURING MALFUNCTION AND BREAKDOWN."

16. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT AND ALL OR ANY PART OF THE PROCESS MUST BE CONTROLLED OR MODIFIED TO COMPLY WITH APPLICABLE REGULATIONS, THE APPLICANT SHALL COMPLETE FORM APC-202, ENTITLED "COMPLIANCE PROGRAM & PROJECT COMPLETION SCHEDULE."

17. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, DOES THE OPERATION COVERED BY THIS APPLICATION REQUIRE AN EPISODE ACTION PLAN? ☐ YES ☐ NO

18. WAS EACH EMISSION SOURCE COVERED BY THIS APPLICATION, AS OF APRIL 14, 1972, IN COMPLIANCE WITH THE "RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION," ADOPTED BY THE FORMER AIR POLLUTION CONTROL BOARD AND CONTINUED EFFECTIVE PURSUANT TO SECTION 49(c) OF THE ENVIRONMENTAL PROTECTION ACT? ☒ YES ☐ NO

19. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, WAS THE OPERATION THE SUBJECT OF A VARIANCE PETITION FILED WITH THE ILLINOIS POLLUTION CONTROL BOARD ON OR BEFORE JUNE 13, 1972? ☐ YES ☐ NO

IF "YES," CITE PCB NUMBER(S): _____ DATE OF BOARD ORDER: _____

HAD THE APPLICANT ON OR BEFORE APRIL 14, 1972, COMMENCED CONSTRUCTION OF EQUIPMENT OR MODIFICATIONS SUFFICIENT TO ACHIEVE COMPLIANCE WITH THE APPLICABLE LIMITATIONS OF THE "RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION," ADOPTED BY THE FORMER AIR POLLUTION CONTROL BOARD AND CONTINUED EFFECTIVE PURSUANT TO SECTION 49(c) OF THE ENVIRONMENTAL PROTECTION ACT? ☐ YES ☐ NO

IF "NO," EXPLAIN IN DETAIL AND MARK YOUR EXPLANATION AS EXHIBIT D.

TOTAL NUMBER OF PAGES IN EXHIBIT D: _____

20. IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, THE APPLICANT SHALL SUBMIT AN ESTIMATE OF THE MAXIMUM ONE-HOUR AMOUNTS OF PARTICULATE MATTER, SULFUR DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, AND ORGANIC MATERIAL EMITTED FROM ALL SOURCES LOCATED ON THE PLANT OR PREMISES. THIS ESTIMATE SHALL INCLUDE ALL EMISSION SOURCES LOCATED ON THE APPLICANT'S PREMISES AND NOT JUST THE EMISSION SOURCES DESCRIBED IN THIS APPLICATION.

MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MAXIMUM ONE-HOUR
PARTICULATE MATTER	105 LB	SULFUR DIOXIDE	2000 LB	NITROGEN OXIDES 600 LB
ORGANIC MATERIAL	50 LB	CARBON MONOXIDE	75 LB	

21. WHAT IS THE SIZE (IN ACRES) OF APPLICANT'S PREMISES?
Total Area 311.718;Operating Area 96.538

22. LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION SUBMITTED AS PART OF THIS APPLICATION. PLEASE NUMBER EVERY PAGE AND STATE THE TOTAL NUMBER OF PAGES IN THIS APPLICATION.

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STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

DATA AND INFORMATION INCORPORATION BY REFERENCE	FOR AGENCY USE ONLY

1. NAME OF OWNER: Monsanto Company	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): W. G. Krummrich Plant
3. STREET ADDRESS OF EMISSION SOURCE: Route 3	4. CITY OF EMISSION SOURCE: Sauget
5. IDENTIFICATION NUMBER: 163 121 AAC	

6a. APPLICATION NUMBER: 02100066	b. IDENTIFICATION ON FLOW DIAGRAM: 219A
c. ☐ CONSTRUCTION ☒ OPERATION OF ONA Flaker & Dust Collector	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CORRECT, CURRENT & COMPLETE? ☐ YES ☒ NO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.	

7a. APPLICATION NUMBER:	b. IDENTIFICATION ON FLOW DIAGRAM:
c. ☐ CONSTRUCTION ☐ OPERATION OF	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CORRECT, CURRENT & COMPLETE? ☐ YES ☐ NO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.	

8a. APPLICATION NUMBER:	b. IDENTIFICATION ON FLOW DIAGRAM:
c. ☐ CONSTRUCTION ☐ OPERATION OF	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CORRECT, CURRENT & COMPLETE? ☐ YES ☐ NO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.	

9a. APPLICATION NUMBER:	b. IDENTIFICATION ON FLOW DIAGRAM:
c. ☐ CONSTRUCTION ☐ OPERATION OF	
d. DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, CORRECT, CURRENT & COMPLETE? ☐ YES ☐ NO	
e. IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & INFORMATION WHICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.	

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STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

*DATA AND INFORMATION AIR POLLUTION CONTROL EQUIPMENT	

*THIS INFORMATION FORM IS FOR AN INDIVIDUAL UNIT OF AIR POLLUTION CONTROL EQUIPMENT OR AN AIR POLLUTION CONTROL SYSTEM.

1. NAME OF OWNER: Monsanto Company	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): W. G. Krummrich Plant
3. STREET ADDRESS OF CONTROL EQUIPMENT: Route 3	4. CITY OF CONTROL EQUIPMENT: Sauget
5. NAME OF CONTROL EQUIPMENT OR CONTROL SYSTEM: Bag Dust Collector	

INSTRUCTIONS

1. COMPLETE THE ABOVE IDENTIFICATION.
2. COMPLETE THE APPROPRIATE SECTION FOR THE UNIT OF CONTROL EQUIPMENT, OR THE APPROPRIATE SECTIONS FOR THE CONTROL SYSTEM. BE CERTAIN THAT THE ARRANGEMENT OF VARIOUS UNITS IN A CONTROL SYSTEM IS MADE CLEAR IN THE PROCESS FLOW DIAGRAM.
3. COMPLETE PAGE 6 OF THIS FORM, EMISSION INFORMATION AND EXHAUST POINT INFORMATION.
4. EFFICIENCY VALUES SHOULD BE SUPPORTED WITH A DETAILED EXPLANATION OF THE METHOD OF CALCULATION, THE MANNER OF ESTIMATION, OR THE SOURCE OF INFORMATION. REFERENCE TO THIS FORM ANY RELEVANT INFORMATION OR EXPLANATION INCLUDED IN THIS PERMIT APPLICATION.
5. EFFICIENCY VALUES AND CERTAIN OTHER ITEMS OF INFORMATION ARE TO BE GIVEN FOR AVERAGE AND MAXIMUM OPERATION OF THE SOURCE EQUIPMENT. FOR EXAMPLE, "MAXIMUM EFFICIENCY" IS THE EFFICIENCY OF THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT MAXIMUM OPERATION, AND "AVERAGE FLOW RATE" IS THE FLOW RATE INTO THE CONTROL EQUIPMENT WHEN THE SOURCE IS AT AVERAGE OPERATION.
6. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS", APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FROM THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
MAXIMUM OPERATION - THE GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

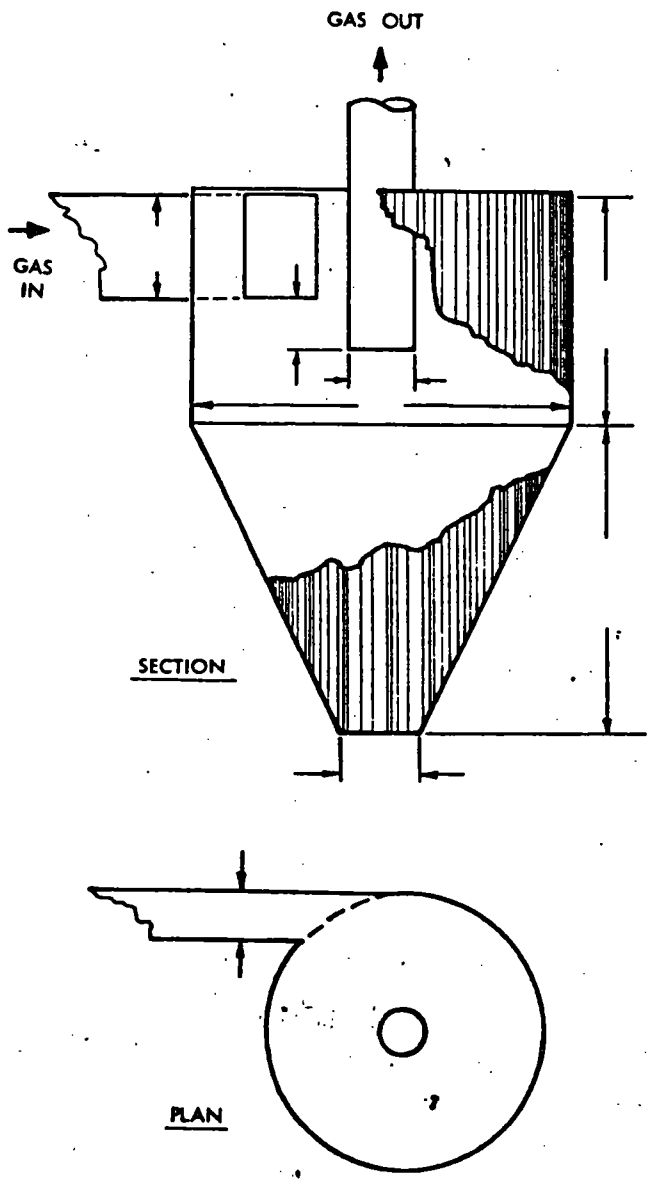
CYCLONE

1. FLOW DIAGRAM DESIGNATION(S) OF CYCLONE:

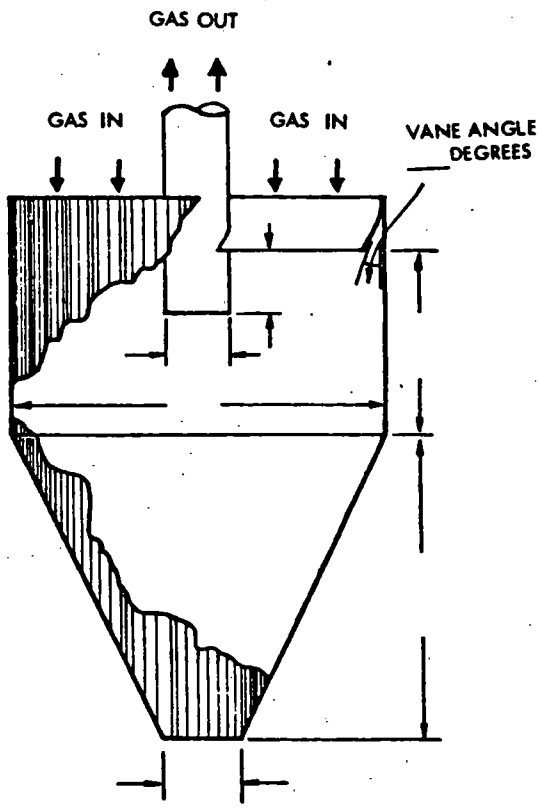
2. MANUFACTURER:	3. MODEL:
4. TYPE OF CYCLONE: ☐ SIMPLE ☐ MULTIPLE	5. NUMBER OF CYCLONES IN EACH MULTIPLE CYCLONE:

6. DIMENSION THE APPROPRIATE SKETCH (IN INCHES) OR PROVIDE A DRAWING WITH EQUIVALENT INFORMATION:

TANGENTIAL INLET CYCLONE



AXIAL INLET CYCLONE
(INDIVIDUAL CYCLONE OF MULTIPLE CYCLONE)



NOT TO SCALE

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
7. GAS FLOW RATE: SCFM	9. GAS FLOW RATE: SCFM
8. EFFICIENCY OF CYCLONE (SEE INSTRUCTION 4): %	10. EFFICIENCY OF CYCLONE (SEE INSTRUCTION 4): %

SCRUBBER

1. FLOW DIAGRAM DESIGNATION(S) OF SCRUBBER:

2. MANUFACTURER:

3. MODEL NAME AND NUMBER:

4. TYPE OF SCRUBBER:

☐ HIGH ENERGY: GAS STREAM PRESSURE DROP _____ INCH H_2O

☐ PACKED: PACKING TYPE _____, PACKING SIZE _____, PACKED HEIGHT _____ IN.

☐ SPRAY: NUMBER OF NOZZLES _____, NOZZLE PRESSURE _____ PSIG

☐ OTHER: SPECIFY _____ ATTACH DESCRIPTION AND SKETCH WITH DIMENSIONS

5. TYPE OF FLOW:

☐ COCURRENT ☐ COUNTERCURRENT ☐ CROSSFLOW

6. SCRUBBER GEOMETRY:

LENGTH IN DIRECTION OF GAS FLOW _____ IN., CROSS-SECTIONAL AREA _____ SQUARE IN.

7. CHEMICAL COMPOSITION OF SCRUBBANT:

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
8. SCRUBBANT FLOW RATE: GPM	12. SCRUBBANT FLOW RATE: GPM
9. GAS FLOW RATE: SCFM	13. GAS FLOW RATE: SCFM
10. INLET GAS TEMPERATURE: °F	14. INLET GAS TEMPERATURE: °F
11. EFFICIENCY OF SCRUBBER (SEE INSTRUCTION 4): %	15. EFFIEICNCY OF SCRUBBER (SEE INSTRUCTION 4): %

OTHER TYPE OF CONTROL EQUIPMENT

1. FLOW DIAGRAM DESIGNATION(S) OF "OTHER TYPE" OF CONTROL EQUIPMENT:

2. GENERIC NAME OF "OTHER" EQUIPMENT:	3. MANUFACTURER:	4. MODEL NAME AND NUMBER:

5. DESCRIPTION AND SKETCH, WITH DIMENSIONS AND FLOW RATES, OF "OTHER" EQUIPMENT:

AVERAGE OPERATION OF SOURCE	MAXIMUM OPERATION OF SOURCE
6. FLOW RATES: _____ GPM _____ SCFM	8. FLOW RATES: GPM _____ SCFM
7. EFFICIENCY OF "OTHER" EQUIPMENT (SEE INSTRUCTION 4): %	9. EFFICIENCY OF "OTHER" EQUIPMENT (SEE INSTRUCTION 4): %

EMISSION INFORMATION

1. NUMBER OF IDENTICAL CONTROL UNITS OR CONTROL SYSTEMS (DESCRIBE AS REQUIRED):

AVERAGE OPERATION OF SOURCE

CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNIT OR CONTROL SYSTEM		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	2a. 0.0300 GR/SCF	b. 0.90 LB/HR	c. Engineering Calculations
CARBON MONOXIDE	3a. PPM (VOL)	b. LB/HR	c. & vender guarentees
NITROGEN OXIDES	4a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	5a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	6a. PPM (VOL)	b. LB/HR	c.
OTHER (SPECIFY)	7a. PPM (VOL)	b. LB/HR	c.

MAXIMUM OPERATION OF SOURCE

CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL CONTROL UNIT OR CONTROL SYSTEM		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	8a. 0.0300 GR/SCF	b. 0.90 LB/HR	c. Engineering Calculations
CARBON MONOXIDE	9a. PPM (VOL)	b. LB/HR	c. & vender guarentees
NITROGEN OXIDES	10a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	11a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	12a. PPM (VOL)	b. LB/HR	c.
OTHER (SPECIFY)	13a. PPM (VOL)	b. LB/HR	c.

**"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

EXHAUST POINT INFORMATION

1. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT: 219A

2. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.): Exhaust direction N.W. Horizontal Discharge

3. EXIT HEIGHT ABOVE GRADE: Approx. 40 ft.	4. EXIT DIAMETER: 16 inches
5. GREASTEST HEIGHT OF NEARBY BUILDINGS: 30 ft. FT	6. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY: 300 FT
AVERAGE OPERATION OF SOURCE	**MAXIMUM OPERATION OF SOURCE**
7. EXIT GAS TEMPERATURE: 125 °F	9. EXIT GAS TEMPERATURE: 125 °F
8. GAS FLOW RATE THROUGH EACH EXIT: 3500 ACFM	10. GAS FLOW RATE THROUGH EACH EXIT: 3500 ACFM

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

DISPOSITION OF WASTE MATERIALS(A) NAME OF EQUIPMENT OR PROCESS TO BE CONSTRUCTED OR OPERATED (B): Orthonitroaniline (ONA) Flake Dust Collector	FOR AGENCY USE ONLY REFERENCE I.D. NO. _____ REFERENCE PERMIT NO. _____ DATE _____

1a. NAME OF OWNER: Monsanto ompany		2a. NAME OF OPERATOR: MCI-A unit of Monsanto Company	
1b. STREET ADDRESS OF OWNER: 800 N. Lindgergh		2b. STREET ADDRESS OF OPERATOR: Route 3	
1c. CITY OF OWNER: St. Louis		2c. CITY OF OPERATOR: Sauget	
1d. STATE OF OWNER: Missouri	1e. ZIP CODE: 63166	2d. STATE OF OPERATOR: Illinois	2e. ZIP CODE: 62201

3a. NAME OF CORPORATE DIVISION OR PLANT: W. G. Krummrich Plant		3b. STREET ADDRESS OF EMISSION SOURCE: Route 3		
3c. CITY OF EMISSION SOURCE: Sauget	3d. LOCATED WITHIN CITY LIMITS: [X] YES [ ] NO	3e. TOWNSHIP: Centreville	3f. COUNTY: St. Clair	3g. ZIP CODE: 62201

4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL) J. W. Molloy	5. TELEPHONE NUMBER FOR AGENCY TO CALL: 618-271-5825
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) [X] OWNER [ ] OPERATOR [ ] EMISSION SOURCE	7. YOUR ID NUMBER FOR THIS APPLICATION:(C) 219A-R1

(A) THIS FORM IS TO BE COMPLETED FOR ANY STATIONARY EMISSION SOURCE THAT WILL RESULT IN THE PRODUCTION OF WASTE MATERIAL THAT MAY BE DISPOSED OF IN A MANNER THAT MAY CAUSE OR TEND TO CAUSE POLLUTION IN ILLINOIS EITHER ALONE OR IN COMBINATION WITH MATTER FROM OTHER SOURCES OR SO AS TO VIOLATE REGULATIONS OR STANDARDS ADOPTED BY THE POLLUTION CONTROL BOARD UNDER THE ENVIRONMENTAL PROTECTION ACT.

(B) ENTER INFORMATION HERE FROM COMPARABLE BLOCK ON APC-200 - "APPLICATION FOR A PERMIT".

(C) ENTER INFORMATION IN ITEM 7 ABOVE SAME AS ITEM 7 APC-200 - "APPLICATION FOR A PERMIT".

(D) IF ADDITIONAL SPACE IS REQUIRED USE ADDITIONAL SHEETS, ATTACH AND IDENTIFY INFORMATION BY APPROPRIATE BLOCK NUMBER AS IT APPEARS ON THIS FORM.

THIS ADDENDUM WILL BE REVIEWED BY THE DIVISION OF LAND POLLUTION CONTROL AND THE OWNER WILL BE NOTIFIED WHETHER OR NOT A DETAILED APPLICATION FOR A PERMIT WILL NEED TO BE SUBMITTED. THIS FORM APC-103 - "DISPOSITION OF SOLID WASTE") IN ITSELF SHALL NOT BE CONSIDERED TO BE AN APPLICATION FOR A PERMIT. PROPER APPLICATION FOR PERMIT FORMS WILL BE MAILED TO YOU BY THE DIVISION OF LAND POLLUTION CONTROL, IF IT IS DEEMED THAT THE FACILITY REQUIRES A PERMIT.

8. BRIEFLY DESCRIBE THE PROCESS WHICH WILL RESULT IN THE PRODUCTION OF WASTE MATERIAL:

Bag Dust Collector

Powder to Cake consistency

10. FOR THE WASTE STATE THE CHEMICAL COMPOSITION, EXPRESSED AS WEIGHT PERCENTAGES OF SOLID WASTE OR IN MILLIGRAMS PER LITER FOR LIQUIDS:

10a. STATE VOLUME & WEIGHT OF THE WASTE GENERATED BY THIS OPERATION:
DAILY 7.2 /DAY WEEKLY 50.4 /WK MONTHLY 201.6 /MO. YEARLY 2520 /YR OTHER _____ EXPLAIN

11a. WILL THE WASTE MATERIAL BE DEPOSITED IN A SANITARY LANDFILL PERMITTED BY THE ENVIRONMENTAL PROTECTION AGENCY?

☐ YES ☒ NO

11b. IF THE ANSWER TO 1a IS "YES", STATE THE NAME AND AGENCY SUPPLEMENTAL PERMIT NUMBER OF SUCH SITE.

NAME _____ SUPPLEMENTAL PERMIT NO. _____

12a. WILL THE WASTE MATERIAL BE STORED OR PROCESS AT THE APPLICANT PLANT OR PREMISES? ☒ YES ☐ NO

12b. IF THE ANSWER TO 12a IS "YES", EXPLAIN.

Waste Material will be recycled to process.
(See dwg. No. 219A-R1)

13a. WILL THE WASTE MATERIAL BE TRANSPORTED TO A REMOTE SITE FOR STORAGE, PROCESSING, OR DISPOSAL? ☐ YES ☒ NO

13b. IF THE ANSWER TO 13a IS "YES", EXPLAIN.

14a. WILL THE WASTE MATERIAL BE INCINERATED? ☐ YES ☒ NO

14b. IF THE ANSWER TO 14a IS "YES", EXPLAIN.

15a. IF THE WASTE WILL BE DISPOSED OR UTILIZED IN A MANNER NOT OTHERWISE DESCRIBED, STATE THE METHOD OF UTILIZATION OR DISPOSAL TO BE USED AND THE OWNER AND LOCATION OF THE DISPOSAL OR PROCESSING FACILITY AND EXPLAIN.

NOT APPLICABLE

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